



April 2019

Hello Fellow SCAN Members!

In March, we spent the weekend exploring the James W. Webb Wildlife Management area in Hampton County, SC. Eva Pratt was a fantastic coordinator, making sure everyone had a spot to sleep and more food than we could possibly eat. Like the varied terrain we were able to explore, the weather also provided a broad range of experiences. The mornings and evenings were quite cool and a bit cloudy while early afternoon on Saturday was a gorgeous mid-70ies with sun.

The explorers were: Dave Kastner, Marty Kastner, Chris Manuse, Scott Wietecha, Carson Johnson, Gill Newberry, Rita Zollinger, Shannon Edwards, Caroline Eastman, Jeff Kline, Ron Lance, Tom Jones, Mary Douglass, Marcus Sizemore, Debo Boddiford, John Cely, Gordon Murphy, Jean Fontaine, Eva Pratt, Sam Pratt, Kathy Boyle, Greg Ross, Ron Ahle, Dave Schuetrum, Sharon Yomtob, and Kim McManus.

We started our day by driving down to the start of the nature trail that winds along the Savannah River. We enjoyed exploring the banks of the oxbow lake as we made our way to the trailhead. Once on the trail, we were only able to go a short distance before the flooded Savannah River blocked our forward momentum. It wasn't quite warm enough to swim!

The rest of the day was spent driving to various locations, then getting out to scout. We covered bottomland hardwoods with Atamasco lilies and two ponds with Ring-necked ducks, alligators, and sparrows. As is typical for SCAN, folks splintered off and explored other areas on their own. The beautiful pine savannah near the lodge was a great place to spot the Bachman's Sparrows. Greg and Marcus navigated the canoe trail, winding in and out of old cypress trees.

As a result of having lots of folks participating, miles of road from which to find new places to explore, and extra time throughout the weekend, we managed to compile quite the flora / fauna list. Tom Jones reports that "lots of butterflies and dragonflies were flying!"

Mary G Douglass wanted to share the exciting news of another flying object sighting.

One very notable find was the flight of fireflies several members serendipitously encountered during our after-dinner walk Saturday night. Sometimes it pays to wander off in the dark and forget your flashlight! These fireflies turned out to be the famous "Blue Ghosts" better known from their center of distribution in the Southern Appalachians. Tom and I returned to the scene two weeks later with Jan Ciegler and firefly researcher Lynn Frierson Faust to observe and collect some of the fireflies. According to Lynn, our Webb Blue Ghosts seem to closely resemble some other outlier populations found in the piedmont of the Carolinas and Georgia, and could eventually turn out to be a new species. Much more research is needed, and that research will be aided by our collection of a small number of specimens, including some for DNA analysis.

While on the subject of fireflies, or lightning bugs, as I always called them, I'd like to enthusiastically recommend Lynn Frierson Faust's new (2017) field guide, *Fireflies, Glow-worms, and Lightning Bugs*. This book is the first comprehensive field guide to fireflies of the eastern and central United States. It has a wealth of information about these fascinating beetles, including chapters on various aspects of their biology as well as detailed accounts of 75 + species. The numerous photos of live beetles as well as descriptions of flashing patterns, behavior, and time of activity make it possible for amateurs to identify many species. As our discovery at Webb shows, the study of fireflies is a perfect area for citizen scientists to make a valuable contribution. The ranges of many species are very poorly known, and it is likely that many new species may be described when some of the

less-known species complexes are looked at more closely. Some species have very specific habitat requirements, and each one typically has a very short window of activity, with some flying for only an hour or so a night for a period as short as a couple of weeks. We need more eyes in dark places to observe these fascinating insects!

Here are a few images from the weekend. Clockwise: the group in front of the Belmont Plantation Lodge, a swamp near the Savannah River, Bachman's Sparrow, and exploring the edges of one of the ponds.



For our April outing, we'll head to Lancaster County and soddle around Forty Acre Rock in the Flat Creek Preserve. Rita Zollinger has scouted the area and reports that the easy walk through the pine forest to the granite outcroppings will be rewarded with sightings of rare plants and beautiful vistas of the Sandhills and Piedmont.

Kim McManus

Forty Acre Rock Heritage Preserve

Kershaw, SC

Saturday April 27, 2019 10:30 AM

Forty Acre Rock is located in the Flat Creek preserve near Kershaw, SC in Lancaster County. Nestled in the 2,267 acres we will explore this delicate ecosystem. This is home to some rare plants Puck's orpine *Sedum pusillum*, diminutive amphianthus and Witlow grass.

South Carolina's official state rock is granite. We will explore the massive 14-acre granite outcropping for the annual aquatic plant *Amphianthus pusillus*. Its habitat is granite outcrops, sandy-silty soils in rock-rimmed vernal pools. The diminutive amphianthus blooms in March to April. Mosses, lichens and pool sprites give color to the granite. A combination of moist and dry woods, mature hardwood forest, hillside to river bottoms there are diverse habitats to SCAN. Did I mention the spectacular views where the Sandhills and Piedmont meet?



Sedum pusillum

It is easy walking through the pine forest to the granite outcroppings. Trails descend down to a waterfall, cave, creeks and beaver pond. April is a good time to see wildflowers and birds of the piedmont. Join us to explore this unique and beautiful place.

Directions:

34.674896, -80.523784 Upper parking lot

Take I-77 to Exit 65 and go east towards Lancaster on SC #9 for 17 miles. Continue straight on the US #521 bypass for 2.5 miles, then turn left onto SC #903. Continue, east on SC #903 for 4.2 miles, Citgo on right corner, turn left. Take first right, 400' east on secondary road #123 to Taxahaw for 10.4 miles. Pass Taxahaw Baptist Church on left at Overland Rd. Take next right (brown 40 acre rock sign) south on road #27 for 0.4 miles. There is a brown sign with binoculars and before Elliott's Nursery, turn right onto Forty Acre Rock Road (not labeled). Parking is at end of road.

From Kershaw, South Carolina, take US #601 north past SC #903. Pass Flat Creek. Take next left onto road #27. Go north 2.0 miles then turn left onto Forty Acre Rock Road. There is a brown sign with binoculars and just after Elliott's Nursery, Forty Acre Rock Road (not labeled). Parking is at end of road.

There are no restrooms, so plan accordingly.

Dinner:

Gus' House of Pizza

605 S. Main St

Lancaster, SC

(803) 285-1552

Contact:

Rita Zollinger

James W. Webb WMA
Hampton Co., SC
March 23, 2019

This list was produced by SCAN from sightings produced by SCAN members and is subject to revision as needed. An asterisk (*) indicates a new sighting for SCAN. Send any changes or corrections to Tom Jones. _____

Please indicate exactly to which flora/fauna list you are referring. Thank you.

LICHENS

Parmotrema dilatatum
Parmotrema tinctorum

FLORA

Liverwort

**Calypogeia muelleriana*

Saffron Moss

**Ditrichum pallidum*

Japanese Climbing Fern

Lygodium japonicum

Bracken

Pteridium aquilinum

Netted Chain Fern

Woodwardia areolata

Virginia Chain Fern

Woodwardia virginica

Ebony Spleenwort

Asplenium platyneuron

Resurrection Fern

*Pleopeltis polypodioides
michauxiana*

Eastern Mosquito Fern

Azolla caroliniana

Spruce Pine

Pinus glabra

Longleaf Pine

Pinus palustris

Loblolly Pine

Pinus taeda

Eastern Red Cedar

Juniperus virginiana virginiana

Bald-cypress

Taxodium distichum

American Frog's-bit

Limnobium spongia

Dwarf Palmetto

Sabal minor

Duckweed

Landoltia punctata

Duckweed

Lemna valdiviana

Mud-midgets

Wolffiella gladiata

Common Rush

Juncus effusus solutus

Woolgrass Bulrush

Scirpus cyperinus

Giant Cane

Arundinaria gigantea

Switch Cane

Arundinaria tecta

Lesser Quaking Grass

Briza minor

Slender Spikegrass

Chasmanthium laxum

Two-flower Melic

Melica mutica

Eastern Needlegrass

Piptochaetium avenaceum

Annual Bluegrass

Poa annua

Common Cattail

Typha latifolia

Spanish-moss

Tillandsia usneoides

False Garlic

Nothoscordum bivalve

Common Atamasco-lily

Zephyranthes atamasca

Common Stargrass

Hypoxis hirsuta

Southern Blue Flag

Iris virginica

Blue-eyed-grass

Sisyrinchium sp.

Catbrier

Smilax bona-nox

Bamboo-vine

Smilax laurifolia

Jackson-brier

Smilax smallii

Red-berried Greenbrier

Smilax walteri

Common Wild Yam

Dioscorea villosa

Southern Magnolia

Magnolia grandiflora

Swamp Bay

Persea palustris

Lizard's-tail

Saururus cernuus

Virginia Snakeroot

Endodeca serpentaria

White Water-lily

Nymphaea odorata odorata

Water-shield

Brasenia schreberi

Marsh Clematis

Clematis crispa

Low Spearwort

Ranunculus pusillus

Sycamore

Platanus occidentalis occidentalis

Sweet Gum

Liquidambar styraciflua

Water-elm

Planera aquatica

Winged Elm

Ulmus alata

American Elm

Ulmus americana

Slippery Elm

Ulmus rubra

Southern Hackberry

Celtis laevigata

Smallspike False-nettle

Boehmeria cylindrica

Water Hickory

Carya aquatica

Pignut Hickory

Carya glabra

Mockernut Hickory

Carya tomentosa

Common Wax-myrtle

Morella cerifera

Sawtooth Oak

Quercus acutissima

Running Oak

Quercus elliotii

Southern Red Oak

Quercus falcata

Laurel Oak

Quercus laurifolia

Overcup Oak

Quercus lyrata

Blackjack Oak

Quercus marilandica marilandica

Swamp Chestnut Oak

Quercus michauxii

Dwarf Live Oak

**Quercus minima*

Water Oak

Quercus nigra

Cherrybark Oak

Quercus pagoda

Willow Oak

Quercus phellos

Swamp Post Oak

**Quercus similis*

Post Oak

Quercus stellata

Live Oak

Quercus virginiana

River Birch

Betula nigra

American Hornbeam*Carpinus caroliniana***American Hop-hornbeam***Ostrya virginiana***Alligator-weed***Alternanthera philoxeroides***Sticky Mouse-ear***Cerastium glomeratum***Wild Dock***Rumex hastatulus***St. Andrew's Cross***Hypericum hypericoides***Salad***Viola edulis***Black Willow***Salix nigra***Quaker Bittercress***Cardamine pensylvanica***Spotted Wintergreen***Chimaphila maculata***Shining Fetterbush***Lyonia lucida***Piedmont Azalea***Rhododendron canescens***Sparkleberry***Vaccinium arboreum***Elliott's Blueberry***Vaccinium elliotii***Southern Highbush Blueberry***Vaccinium formosum***Southern Blueberry***Vaccinium tenellum***American Persimmon***Diospyros virginiana***Horsesugar***Symplocos tinctoria***Red Hawthorn***Crataegus iracunda***Parsley Hawthorn***Crataegus marshallii***Green Hawthorn***Crataegus viridis***Wild Crab Apple***Malus angustifolia***Chickasaw Plum***Prunus angustifolia angustifolia***Black Cherry***Prunus serotina serotina***Southern Blackberry***Rubus argutus***Southern Dewberry***Rubus trivialis***Tall Indigo-bush***Amorpha fruticosa***Thick-pod White Wild Indigo***Baptisia alba***Honesty-weed***Baptisia tinctoria***Sesban***Sesbania herbacea***Low Hop Clover***Trifolium dubium***Pale Vetch***Vicia caroliniana***Slender Vetch***Vicia tetrasperma***American Wisteria***Wisteria frutescens***Chinese Wisteria***Wisteria sinensis***Flowering Dogwood***Cornus florida***Water Tupelo***Nyssa aquatica***Swamp Tupelo***Nyssa biflora***Blackgum***Nyssa sylvatica***American Mistletoe***Phoradendron leucarpum leucarpum***Possum-haw***Ilex decidua decidua***American Holly***Ilex opaca opaca***Yaupon***Ilex vomitoria***Peppervine***Ampelopsis arborea***Virginia-creeper***Parthenocissus quinquefolia***Muscadine***Vitis rotundifolia rotundifolia***Swamp Red Maple****Acer drummondii***Eastern Red Maple***Acer rubrum rubrum***Red Buckeye***Aesculus pavia pavia***Winged Sumac***Rhus copallinum***Poison Oak***Toxicodendron pubescens***Eastern Poison Ivy***Toxicodendron radicans radicans***Chinaberry***Melia azedarach***Wood-sorrel***Oxalis articulata***Common Yellow Wood-sorrel***Oxalis stricta***Violet Wood-sorrel***Oxalis violacea***Southern Carolina Crane's-bill***Geranium carolinianum carolinianum***Devil's-walking-stick***Aralia spinosa***English Ivy***Hedera helix helix***Carolina Jessamine***Gelsemium sempervirens***White Milkweed***Asclepias variegata***Climbing Dogbane***Trachelospermum difforme***Carolina Ponyfoot***Dichondra carolinensis***Moss Vervain***Glandularia aristigera***Beautyberry***Callicarpa americana***Lyre-leaf Sage***Salvia lyrata***Water-starwort***Callitriche heterophylla heterophylla***Mud-hyssop***Gratiola neglecta***Common Toadflax***Nuttallanthus canadensis***Fringe-tree***Chionanthus virginicus***Glossy Privet***Ligustrum lucidum***Cross-vine***Bignonia capreolata***Trumpet-creeper***Campsis radicans***Inflated Bladderwort***Utricularia inflata***Buttonbush***Cephalanthus occidentalis***Tiny Bluet***Houstonia pusilla***Common Elderberry***Sambucus canadensis***Southern Wild Raisin***Viburnum nudum***Small-leaf Viburnum***Viburnum obovatum***Silverling***Baccharis halimifolia***Green-and-gold***Chrysogonum virginianum***Common Dog-fennel***Eupatorium capillifolium***Facelis***Facelis retusa***Opposite-leaf Dwarf-dandelion***Krigia cespitosa cespitosa***Virginia Dwarf-dandelion***Krigia virginica***Field Burweed****Soliva sessilis***Loblolly Pine Rust***Cronartium fusiforme***FAUNA****Filmy Dome Spider***Neriere radiata***Six-spotted Fishing Spider***Dolomedes triton***Red Imported Fire Ant***Solenopsis invicta*

Eastern Carpenter Bee*Xylocopa virginica***Swamp Darner***Epiaschna heros***Common Baskettail***Tetragoneuria cynosura***Little Blue Dragonlet***Erythrodiplax minuscula***Blue Corporal (dragonfly)***Ladona deplanata***Painted Skimmer***Libellula semifasciata***Blue Dasher***Pachydiplax longipennis***Ebony Jewelwing***Calopteryx maculata***Fragile Forktail (damselfly)***Ischnura posita***Rambur's Forktail (damselfly)***Ischnura ramburi***Citrine Forktail (damselfly)***Ischnura hastata***Tiger Beetle***Cicindela sp.***Blue Ghost Firefly****Phausis reticulata***Pipevine Swallowtail***Battus philenor***Zebra Swallowtail***Eurytides marcellus***Eastern Tiger Swallowtail***Papilio glaucus***Palamedes Swallowtail***Papilio palamedes***Cloudless Sulphur***Phoebis sennae eubule***Barred Yellow****Eurema दौरa***Sleepy Orange***Abaeis nicippe***Red-banded Hairstreak***Calycopis cecrops***Eastern Tailed-blue***Cupito comyntas***Azure Butterfly***Celastrina sp.***Texan Crescent****Phyciodes texana***Pearl Crescent (butterfly)***Phyciodes tharos***Question Mark (butterfly)***Polygonia interrogationis***Eastern Comma; Hop Merchant***Polygonia comma***Anglewing (butterfly)***Polygonia sp.***American Lady (butterfly)***Vanessa virginiensis***Red Admiral***Vanessa atalanta***Common Buckeye (butterfly)***Junonia coenia***Southern Pearly-eye(butterfly)***Enodia portlandia***Gemmed Satyr (butterfly)***Cyllopsis gemma***Carolina Satyr (butterfly)***Hermeuptychia sosybius***Carolina/Intricate Satyr***Hermeuptychia sp***Little Wood-satyr (butterfly)***Megisto cymela***Silver-spotted Skipper***Epargyreus clarus***Southern Cloudywing***Thorybes bathyllus***Juvenal's Duskywing***Erynnis juvenalis***Horace's Duskywing***Erynnis horatius***Common Checkered-skipper***Pyrgus communis***Checkered Skipper***Pyrgus sp.***Zabulon Skipper***Poanes zabulon***Lace-winged Roadside Skipper***Amblyscirtes aesculapius***Polyphemus Moth(cocoon)***Antheraea polyphemus***Southern Cricket Frog***Acris gryllus***Pine Woods Treefrog***Hyla femoralis***Bullfrog***Lithobates catesbiana***Southern Leopard Frog***Lithobates utricularia***American Alligator***Alligator mississippiensis***Green Anole***Anolis carolinensis***Ground Skink***Scincella lateralis***Black Racer***Coluber constrictor***Eastern Ratsnake***Pantherophis alleghaniensis***Cottonmouth; Water Moccasin***Agkistrodon piscivorus***Anhinga; Snakebird***Anhinga anhinga***Green-backed Heron***Butorides striatus***Little Blue Heron***Egretta caerulea***Great Egret***Casmerodius albus***Great Blue Heron***Ardea herodias***Wood Duck***Aix sponsa***Ring-necked Duck***Aythya collaris***Common Gallinule***Gallinula galeata***Killdeer***Charadrius vociferus***Turkey Vulture***Cathartes aura***Black Vulture***Coragyps atratus***American Swallow-tailed Kite***Elanoides forficatus***Cooper's Hawk***Accipiter cooperii***Red-shouldered Hawk***Buteo lineatus***Red-tailed Hawk***Buteo jamaicensis***Osprey***Pandion haliaetus***Northern Bobwhite***Colinus virginianus***Mourning Dove***Zenaida macroura***Barred Owl***Strix varia***Belted Kingfisher***Ceryle alcyon***Red-bellied Woodpecker***Melanerpes carolinus***Northern Flicker***Colaptes auratus***Downy Woodpecker***Picoides pubescens***Hairy Woodpecker***Picoides villosus***Red-cockaded Woodpecker***Picoides borealis***Yellow-bellied Sapsucker***Sphyrapicus varius***Pileated Woodpecker***Dryocopus pileatus***Eastern Phoebe***Sayornis phoebe***Blue Jay***Cyanocitta cristata***American Crow***Corvus brachyrhynchos***Fish Crow***Corvus ossifragus***Carolina Chickadee***Parus carolinensis***Tufted Titmouse***Baeolophus bicolor***White-breasted Nuthatch***Sitta carolinensis***Brown-headed Nuthatch***Sitta pusilla***Carolina Wren***Thryothorus ludovicianus***Blue-gray Gnatcatcher***Poliophtila caerulea***Eastern Bluebird***Sialia sialis*

American Robin

Turdus migratorius

Northern Mockingbird

Mimus polyglottos

Brown Thrasher

Toxostoma rufum

White-eyed Vireo

Vireo griseus

Blue-headed Vireo

Vireo solitarius

Northern Parula

Parula americana

Yellow-rumped Warbler

Dendroica coronata

Yellow-throated Warbler

Dendroica dominica

Pine Warbler

Dendroica pinus

Common Yellowthroat

Geothlypis trichas

Northern Cardinal

Cardinalis cardinalis

Eastern Towhee

Pipilo erythrophthalmus

Bachman's Sparrow

Aimophila aestivalis

Chipping Sparrow

Spizella passerina

Dark-eyed Junco

Junco hyemalis

White-throated Sparrow

Zonotrichia albicollis

Red-winged Blackbird

Agelaius phoeniceus

Gray Squirrel

Sciurus carolinensis

Eastern Fox Squirrel

Sciurus niger

Beaver (gnaw mark)

Castor canadensis

Coyote

Canis latrans

Wild Pig

Sus scrofa

White-tailed Deer

Odocoileus virginianus

Tillman Sand Ridge HP
Jasper Co., SC
March 24, 2019

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Please indicate exactly to which flora/fauna list you are referring. Thank you.

FLORA

Smooth Spiderwort
Tradescantia ohiensis

Common Pawpaw
Asimina triloba

Red Mulberry
Morus rubra

American Beech
Fagus grandifolia

Bluff Oak
* *Quercus austrina*

Sand Laurel Oak
Quercus hemisphaerica

Turkey Oak
Quercus laevis

Sand Post Oak
Quercus margaretta

South Carolina Wild-pink
Silene caroliniana caroliniana

Swamp Cottonwood
Populus heterophylla

Coastal Fetterbush
Eubotrys racemosa

Southern Evergreen Blueberry
Vaccinium myrsinites

Silverbell
Halesia tetraptera

Oneflower Hawthorn
Crataegus uniflora

Hog Plum
Prunus umbellata

Gopher-apple
Licania michauxii

Gopherweed
Baptisia perfoliata

Eastern Redbud
Cercis canadensis canadensis

Water Tupelo
Nyssa aquatica

Myrtle Holly
Ilex myrtifolia

Popcorn Tree
Triadica sebifera

Eastern Poison Ivy
Toxicodendron radicans radicans

Water Ash

Fraxinus caroliniana

Chinese Privet

Ligustrum sinense

Cross-vine

Bignonia capreolata

Longstalk Coreopsis

Coreopsis lanceolata

FAUNA

Honey Bee

Apis mellifera

Eastern Tiger Swallowtail

Papilio glaucus

Palamedes Swallowtail

Papilio palamedes

Gopher Tortoise

Gopherus polyphemus